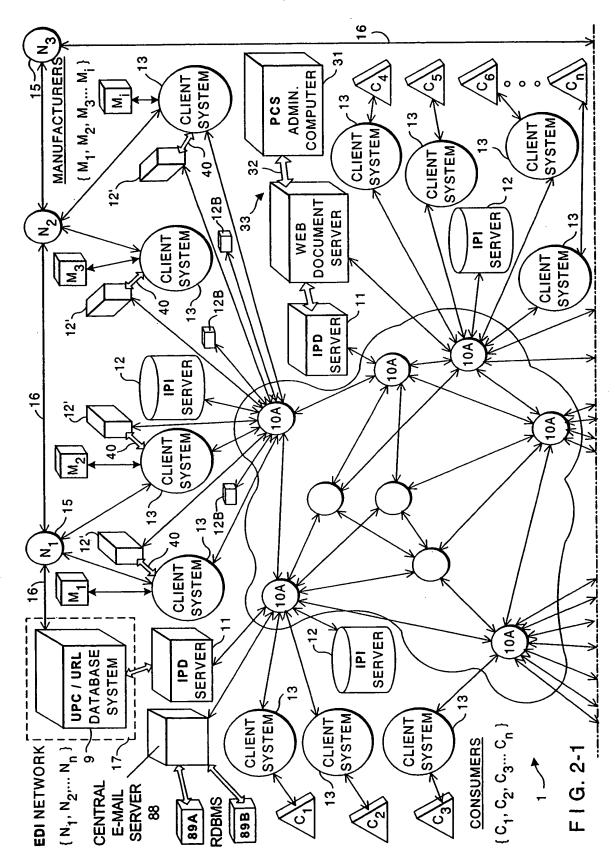
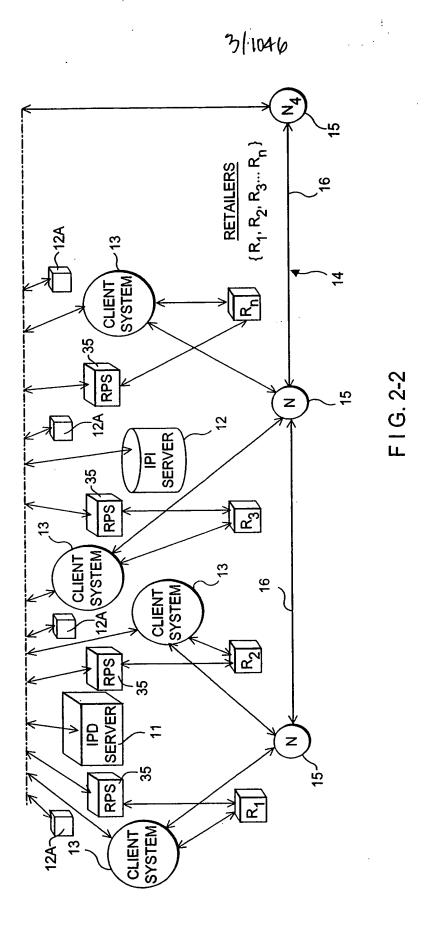
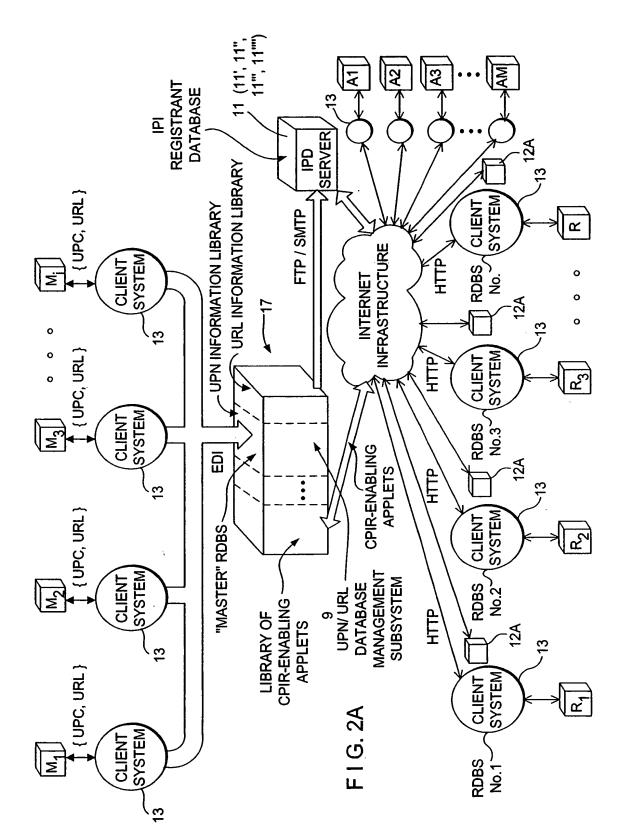


2/1046



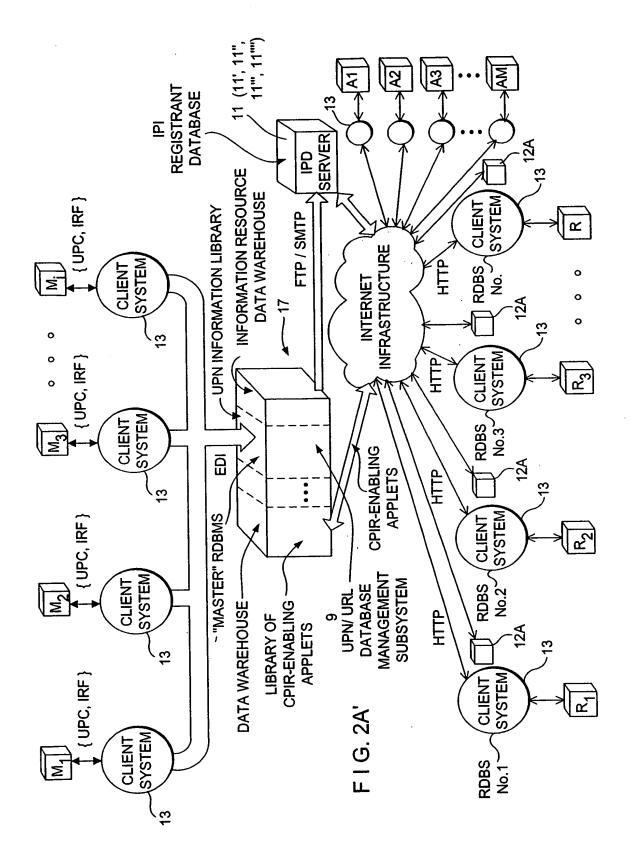


4 | 1046



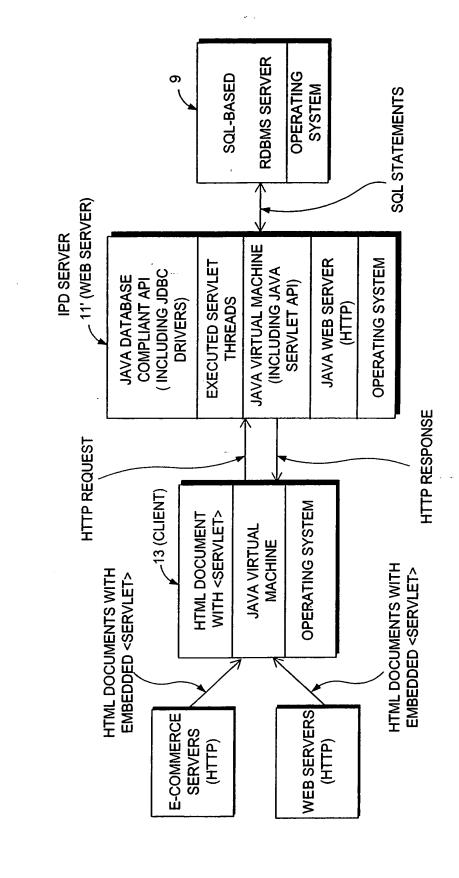
•

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MECHANISM FOR ACCESSING CONSUMER PRODUCT INFORMATION FROM RDBMS SERVER USING SERVER-SIDE APPLETS EMBEDDED IN HTML DOCUMENTS

(4)



F1G. 2B1

SERVER USING CLIENT-SIDE APPLETS EMBEDDED IN HTML DOCUMENTS AND CGIS MECHANISM FOR ACCESSING CONSUMER PRODUCT INFORMATION FROM RDBMS

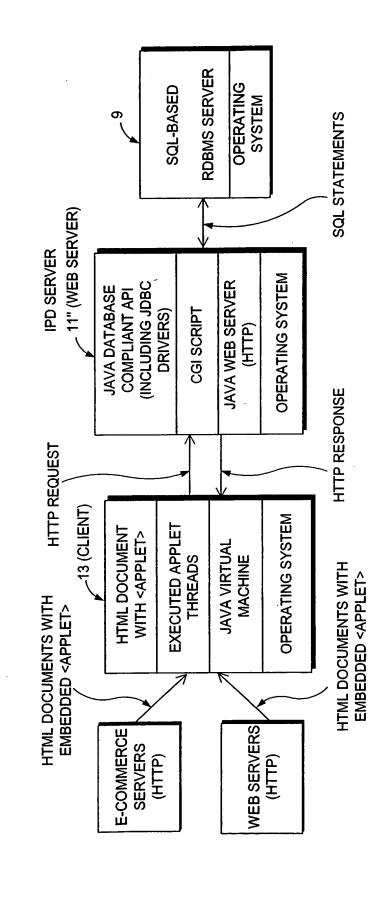
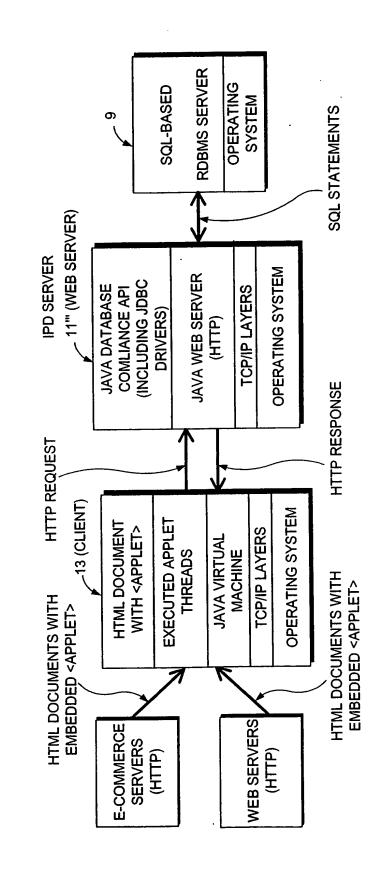


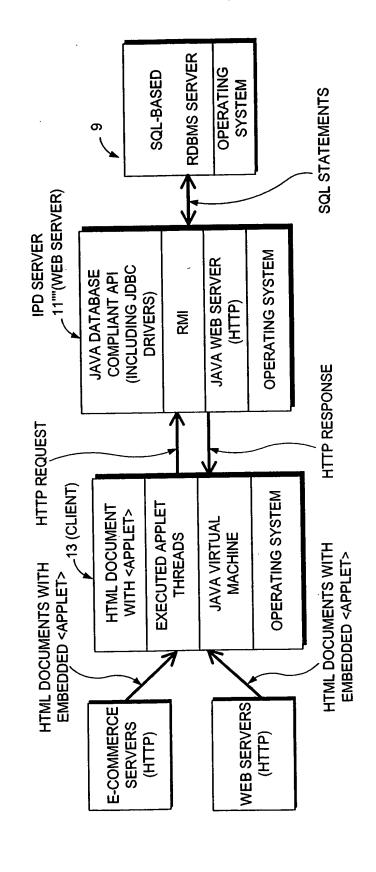
FIG. 2B2

MECHANISM FOR ACCESSING CONSUMER PRODUCT INFORMATION FROM RDBMS SERVER USING CLIENT-SIDE APPLETS EMBEDDED IN HTML DOCUMENTS AND SOCKET CONNECTIONS

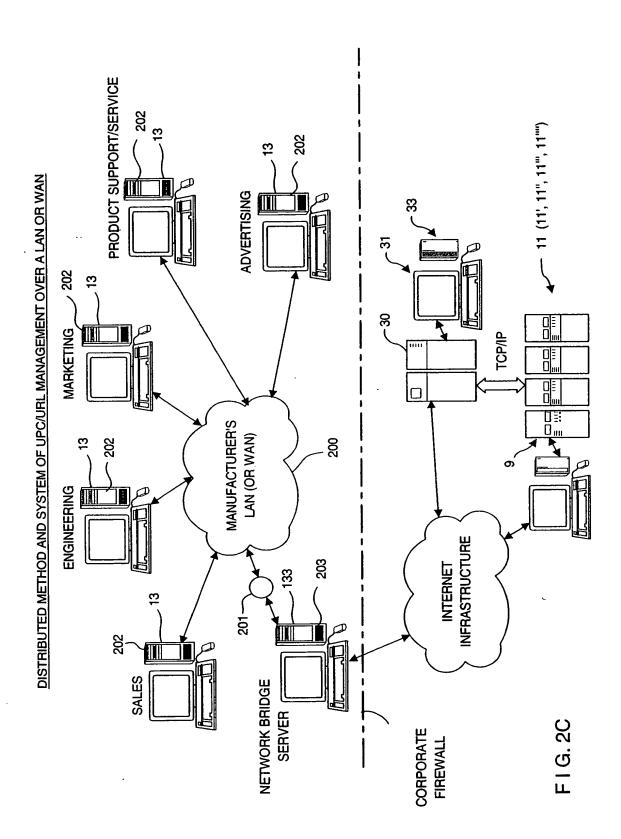


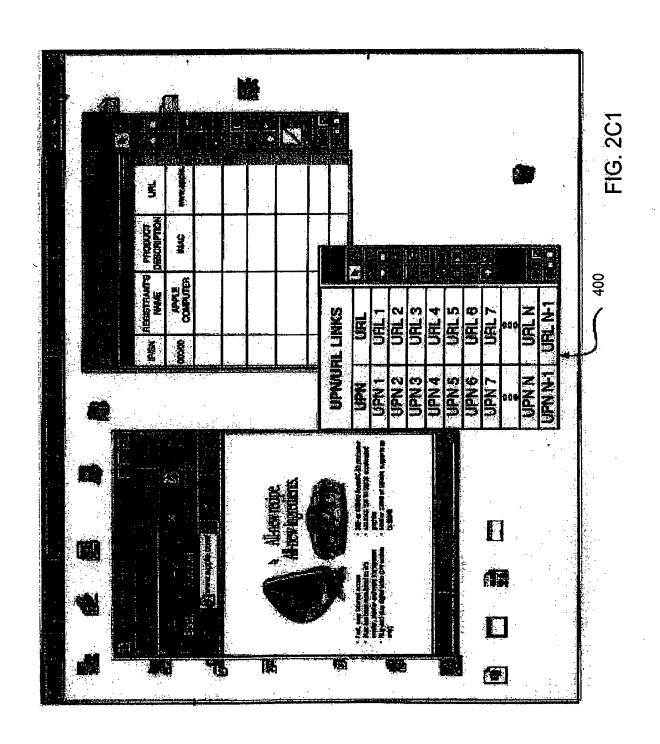
F1G. 2B3

RDBMS SERVER USING CLIENT-SIDE APPLETS EMBEDDED IN HTML DOCUMENTS MECHANISM FOR ACCESSING CONSUMER PRODUCT INFORMATION FROM AND REMOTE METHOD OF INVOCATION (RMI) ON JAVA WEB SERVER



F1G. 2B4





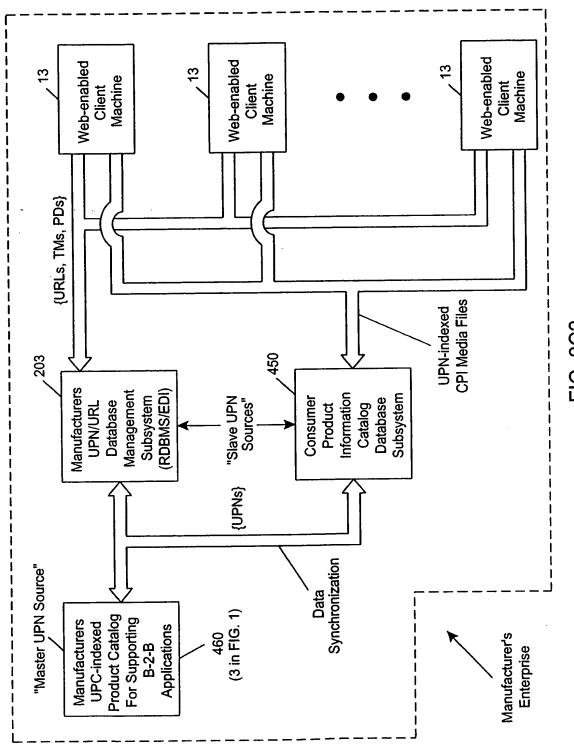


FIG. 2C2

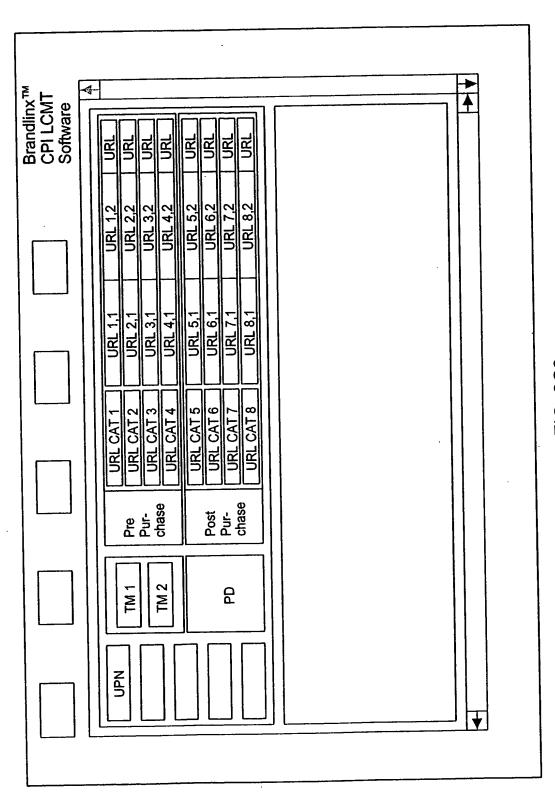
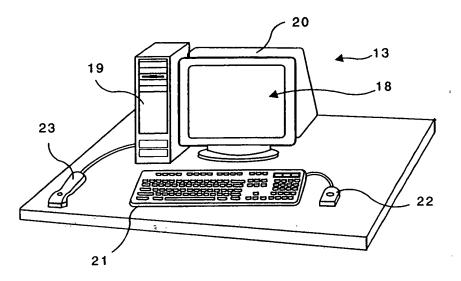
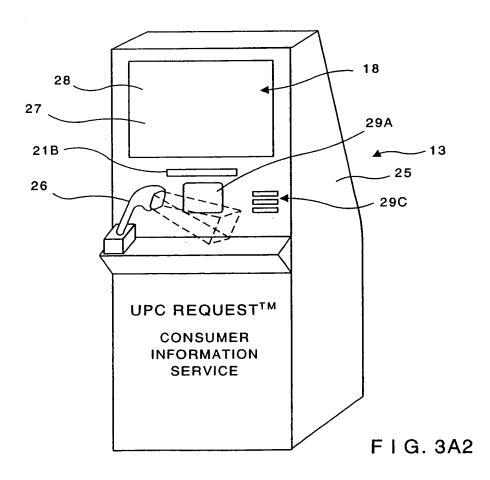
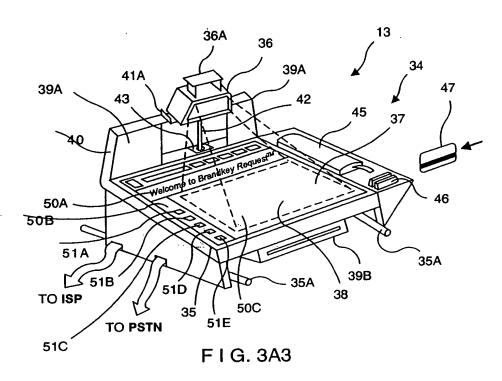


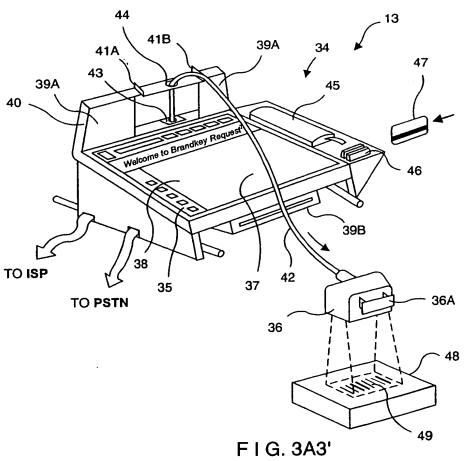
FIG. 203

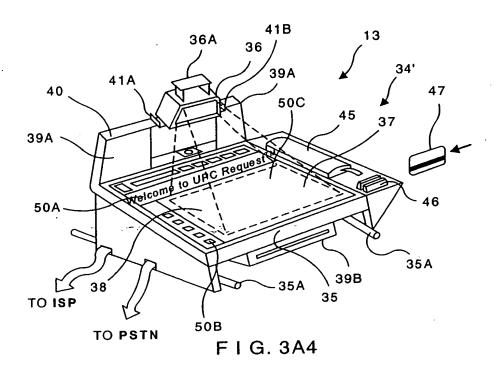


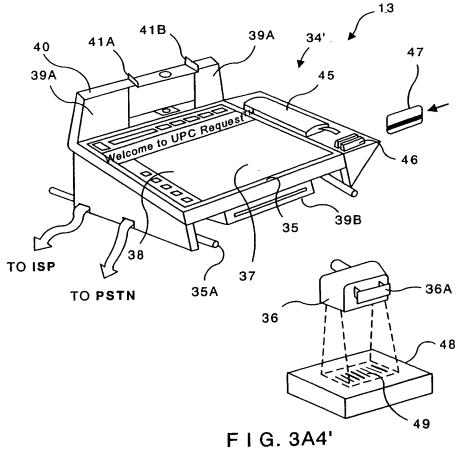
F I G. 3A1











CONSUMER PRODUCT INFO. REQUEST, CPIR-ENABLING APPLET LIBRARY

| STATUS | | | | | | | | ••• | · |
|-------------------------------------|---|---|-----------------------------|------------------------------|--|-----------------------------|--|-------|----------------------------|
| CPIR APPLETS | | 5 | | | | | | ••• | |
| e-mail ADDRESS | | | | | | | | ••• | |
| TRADE/ SERVICE MARKS | POWER | | CREST | ZANTAC ZANTAC 75 | | KODAK | | ••• | SONY |
| UNIFORM RESOURCE LOCATOR (URL) | http:// www.power.com/pc | | http:// www.tooth.com/pc | http:// www.zantac.com/pc | | http:// www.kodak.com/pc | | • • • | http://www.sony.com/ pc |
| PRODUCT DESCRIPTION | POWER MAC 7600/120 COMPUTER | | TOOTH PASTE | ACID REDUCER | | FILM PROCESSING | | ••• | PERSONAL COMPUTER |
| REGISTRANT'S NAME AND ADDRESS | APPLE COMPUTER, INC. CUPERTINO, CA. | | PROCTOR & GAMBLE | WARNER WELCOME | | KODAK, INC. | | ••• | SONY, INC. |
| NS / dl | 7/18908/ 17674/0 | | 0/373/100/6 | 3/12547/ 68404/0 | | 0/00005/ 17643/4 | | ••• | 0/27242/ 51057/9 |

FIG. 4A1

f · g ·

| FIG. 4A2 | · | |
|----------|---|----------|
| | | |
| | • | <u>.</u> |

| PRODUCT ADVERTI- SEMENT INFORMATION FIELD | | ••• | | |
|---|--|-----|----------|--|
| MISCELLA- NEOUS INFORMATION FIELD | | | | |
| PRODUCT MISCELLA- REVIEW NEOUS INFORMATION FIELD FIELD | | | | |
| PRODUCT INCENTIVE INFORMATION FIELD | | | FIG. 4A2 | |
| PRODUCT WARRANTY / SERVING INFORMATION FIELD | | | Ę | |
| PRODUCT UPDATE INFORMATION FIELD | | | | |
| PRODUCT SPECIFICATION INFORMATION FIELD | | | | |
| URL | | | | |

| IP/SN | REGISTRANT'S NAME AND ADDRESS | PRODUCT DESCRIPTION | TRADE/SERVICE MARKS | E-MAIL ADDRESS | STATUS |
|-----------------|-------------------------------------|-------------------------|------------------------|-------------------|--------|
| | | | | | |
| 7/05089/37460/7 | NETSCAPE COMMUNICATIONS CORP. | INTERNET NAVIGATOR | NETSCAPE, NAVIGATOR | | |
| | | | | | |
| | , | | | | |
| 0/30000/01020/4 | QUAKER, INC. | OATMEAL | QUAKER | | |
| 0/496/390/1 | COLA COLA, INC. | COCA SODA | COCA - COLA, COKE | | |
| | | | | | |
| 0/7599/24245/2 | WARNER BROS. | PAT METHANY AUDIO CD | GEFFEN | | |
| | | | | | |
| | | ••• | • • • | | |
| | | | | | |

FIG. 4B

| Manufacturer | Company Name | Street Address | City | State | Postal Code | Country | Manufacturer ID Number | Contact Person | Phone Number | E-Mail | Domain Name | Website Creation Date | Website Existence | Manager Control of the Control of th | Manufacturer Website URL | | | FIG. 4C1 |
|----------------------|--------------|----------------|----------------|------------------------|-----------------------------|--------------------------|------------------------|------------------------|----------------------------------|--------------|-------------|------------------------|-----------------------------|--|------------------------------|-----------------------------|--|----------|
| 6 | ה | V V | √ ∢ | V | A | ∢ | <u></u>] | | þ | [< | ₹ | ∢]. | ٨ |] | < | <u> </u> | | |
| (1) Consumer Product | 7 | UPC Number | Company Name | Manufacturer ID Number | Manufacturer Product Number | Manufacturer Website URL | Product Description | \rightarrow | Information Resources on the WWW | | | Manufacturer ID Number | Manufacturer Product Number | Company Name | 11D1 for Droduct Description | ONE IOI FIOUNCE DESCRIPTION | | FIG. 4C |
| | | A | . < | ⋖ | ⋖ | ⋖ | ⋖ | ⋖ | ⋖ | ⋖ | ⋖ | ⋖ | 2 | <u> </u> | Α | Α | | |
| | Manutacturer | Company Name | Street Address | Oity | State | Postal Code | Country | Manufacturer ID Number | Contact Person | Phone Number | E-Mail | Domain Name | Website Organies Dete | Website Creation Date | Website Existence | Manufacturer Website URL | | |

Consumer Product
UPC Number
Company Name
Manufacturer ID Number
Manufacturer Product Number
Manufacturer Website URL
Product Description
Primary Trademark
Secondary Trademark
Package Type
UPC Symbol Type
Website Marking on Package

Manufacturer Product Number

Manufacturer ID Number

UPC Number

Info. Resources on WWW

FIG. 4C

JRL For Company Stock Purchase JRL For Company Annual Report JRL For Direct Product Purchase JRL For Complementary Product JRL For Complementary Product JRL For Complementary Product **JRL For Product Retailer No.2** JRL For Product Retailer No.3 **URL For WWW Advertisement URL For WWW Advertisement** URL For WWW Advertisement JRL For Product Retailer No.1 **JRL For Product Wholesaler** JRL For Product Description JRL For Product Wholesaler JRL For Product Wholesaler **URL** For Warranty Service **URL For Product Manual Sompany Name**

FIG. 4C3

RETAILER

Company Name

Street Address

City

State

Postal Code

Country

Manufacturer ID Number

Contact Person

Phone Number

E-Mail

Domain Name

Website Creation Date

Website Existence

Manufacturer Website URL

Manufacturer No. 1

Manufacturer No. 2

Manufacturer No. 3

Manufacturer No. 4

Manufacturer No. 5

Manufacturer No. 6

Manufacturer No. 7

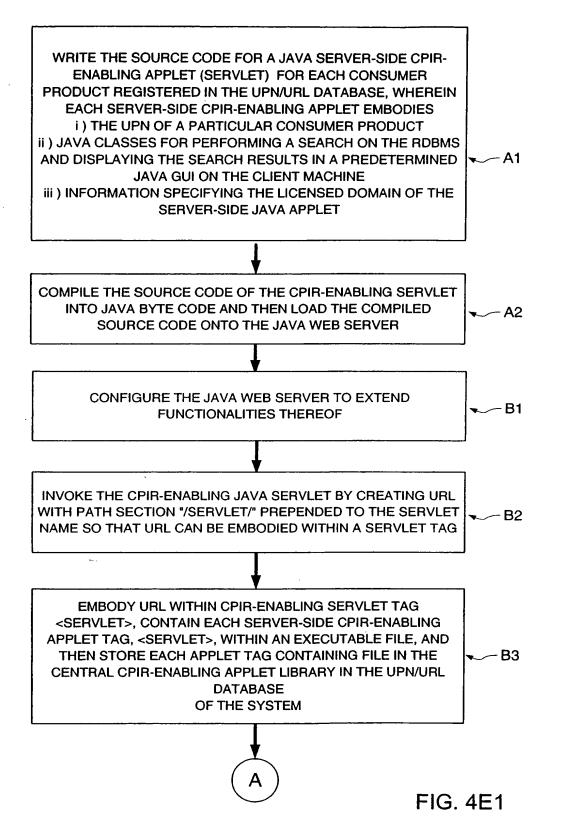
Manufacturer No. 8

Manufacturer No. 9

Manufacturer No. 10

Manufacturer No. N.

FIG. 4D



– D

• E

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DISTRIBUTE THE APPLET TAG CONTAINING FILES TO RETAILERS, WHOLESALERS, ADVERTISERS AND THE LIKE BY FTP, XML/EDI, OR OTHER ELECTRONIC DATA INTERCHANGE PROTOCOLS.

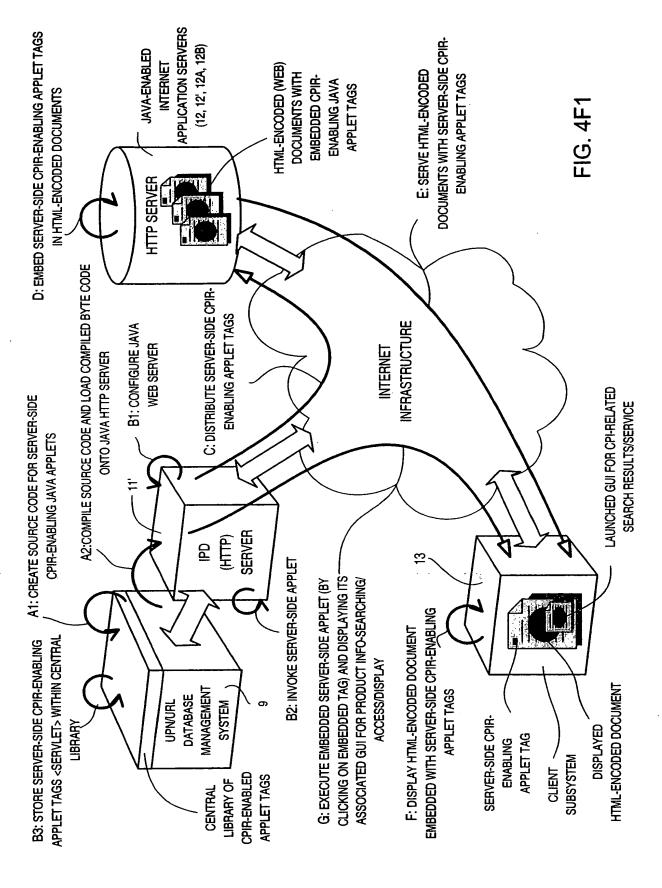
OPEN THE DOWNLOADED EXECUTABLE FILES, EXTRACT THE SERVER-SIDE APPLET TAGS CONTAINED THEREWITHIN, AND EMBED THE CPIR-ENABLING APPLET TAGS INTO ACCEPTABLE HTML-ENCODED DOCUMENTS ASSOCIATED WITH THE ECENABLED WWW SITES, STOREFRONTS, CATALOGS, WEB-BASED ADVERTISEMENTS, ONLINE AUCTIONS, ETC.

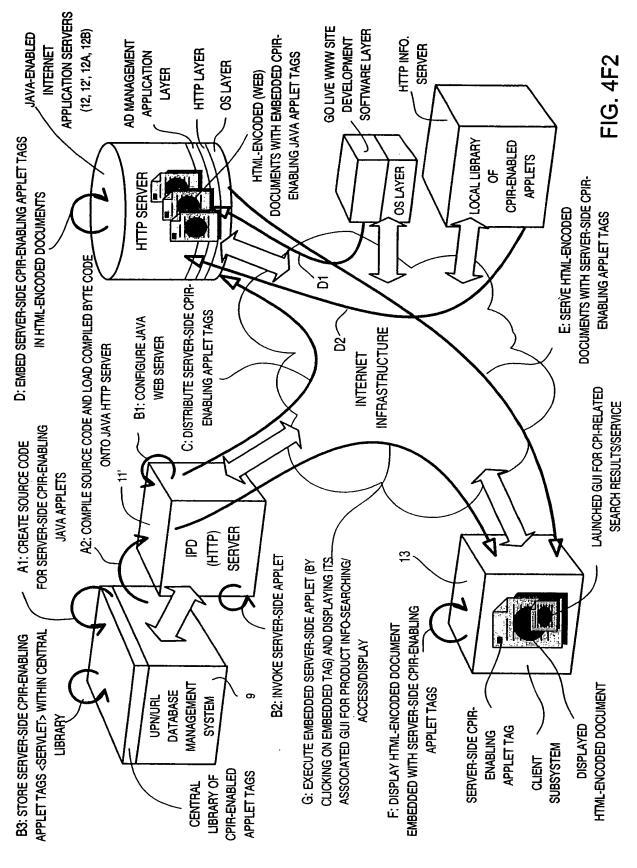
SERVE HTML-ENCODED DOCUMENTS HAVING
ONE OR MORE OF EMBEDDED SERVER-SIDE CPIR-ENABLING
APPLET TAGS, FROM INTERNET SERVERS TO JAVA-ENABLED
CLIENT SUBSYSTEMS

DISPLAY ON JAVA ENABLED CLIENT SUBSYSTEMS THE HTML-ENCODED DOCUMENTS WITH EMBEDDED SERVER-SIDE CPIR-ENABLING APPLET TAGS

EXECUTE THE ASSOCIATED UPN-ENCODED SERVER-SIDE
APPLET AND CORRESPONDING RDBMS SEARCH BY CLICKING
ON THE CPIR-ENABLING APPLET WHEREBY THE RDBMS SEARCH
RESULTS ARE AUTOMATICALLY DISPLAYED ON A JAVA GUI ON
THE SEARCH-REQUESTING CLIENT SUBSYSTEM

FIG. 4E2





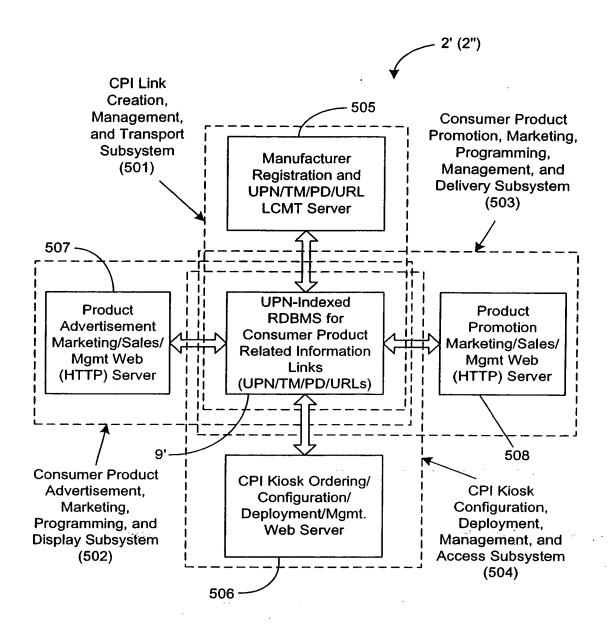
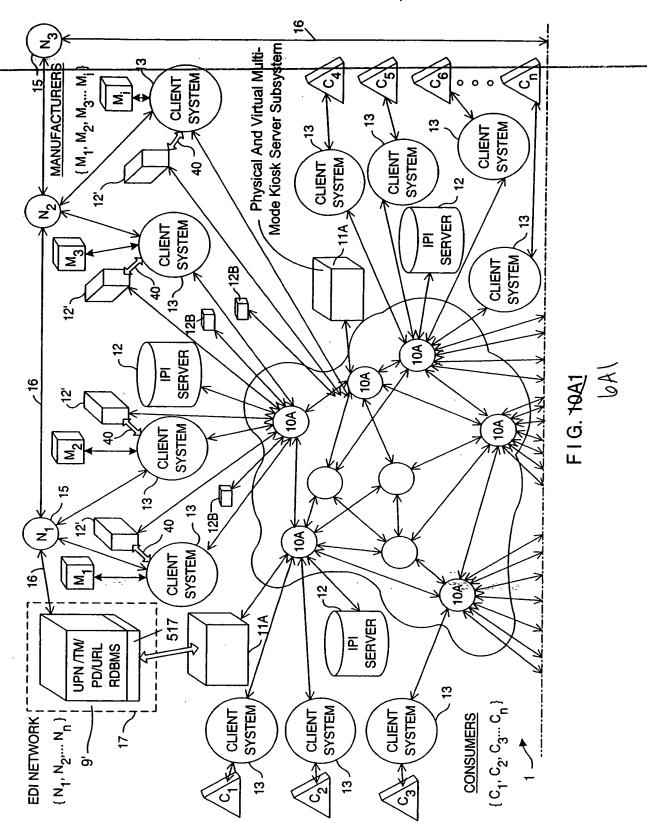
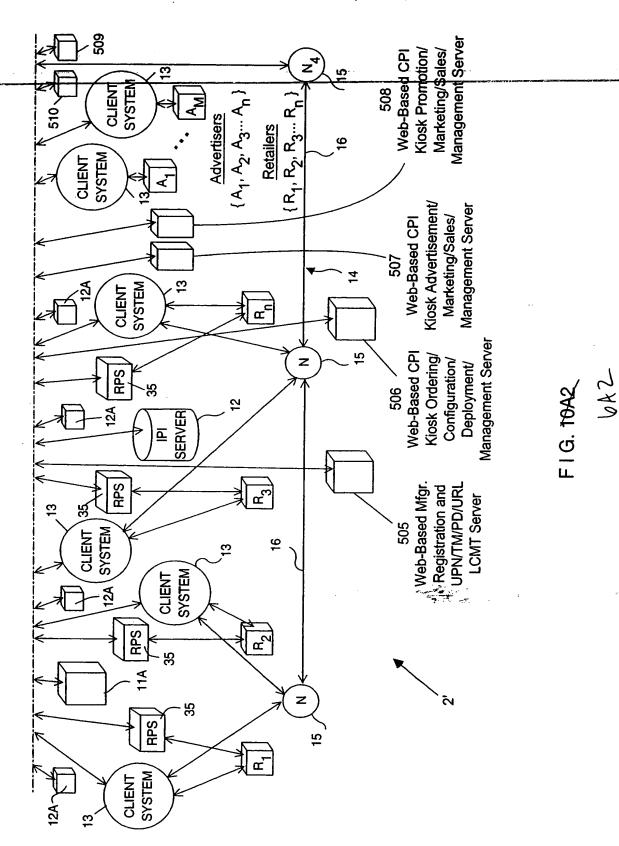
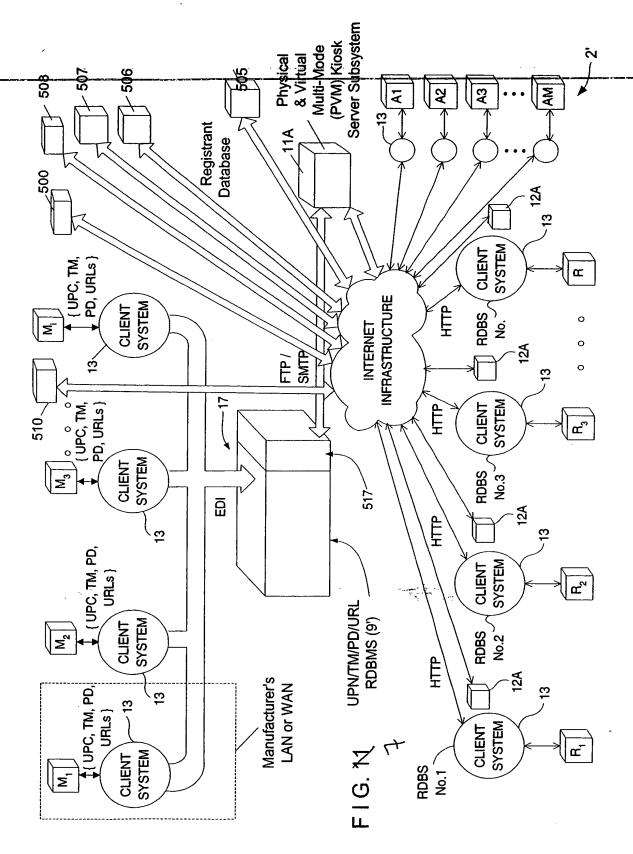
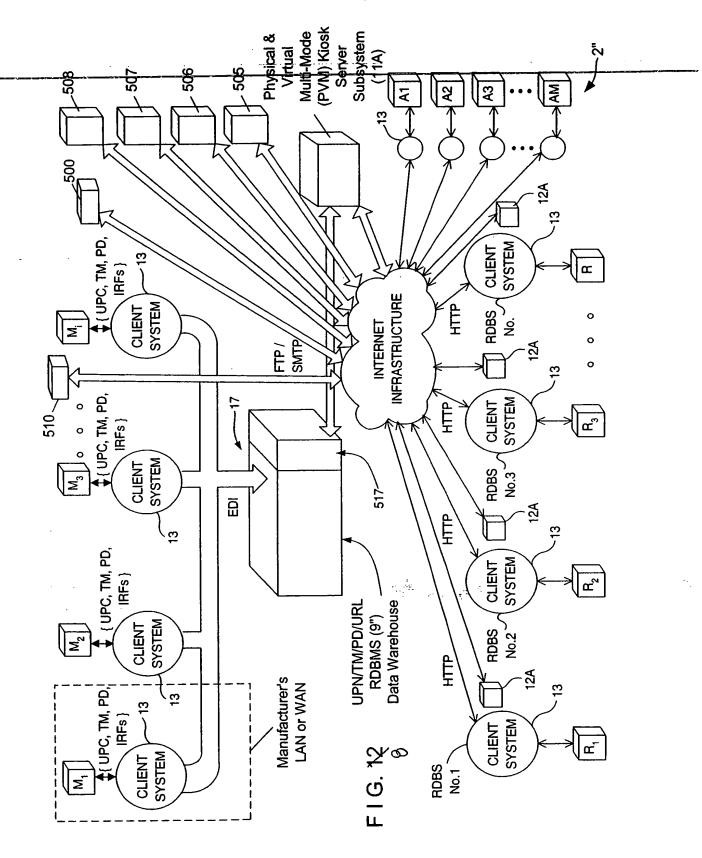


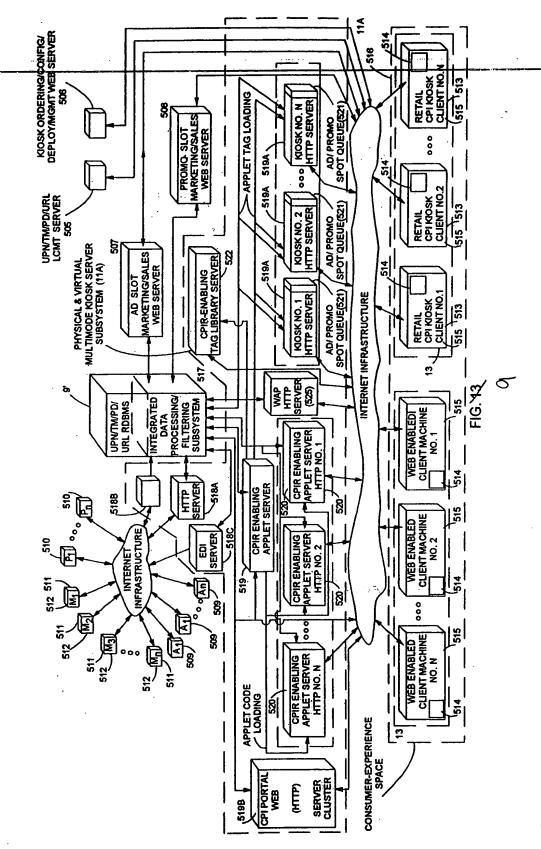
FIG. 9A











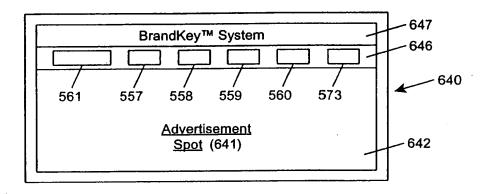


FIG. 42A 10A

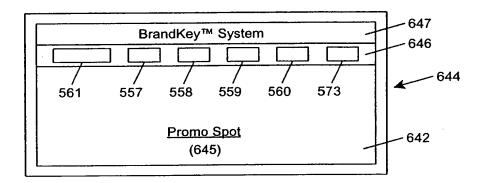


FIG. 42B 10B

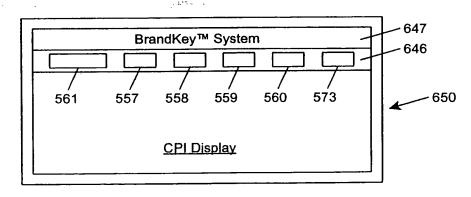
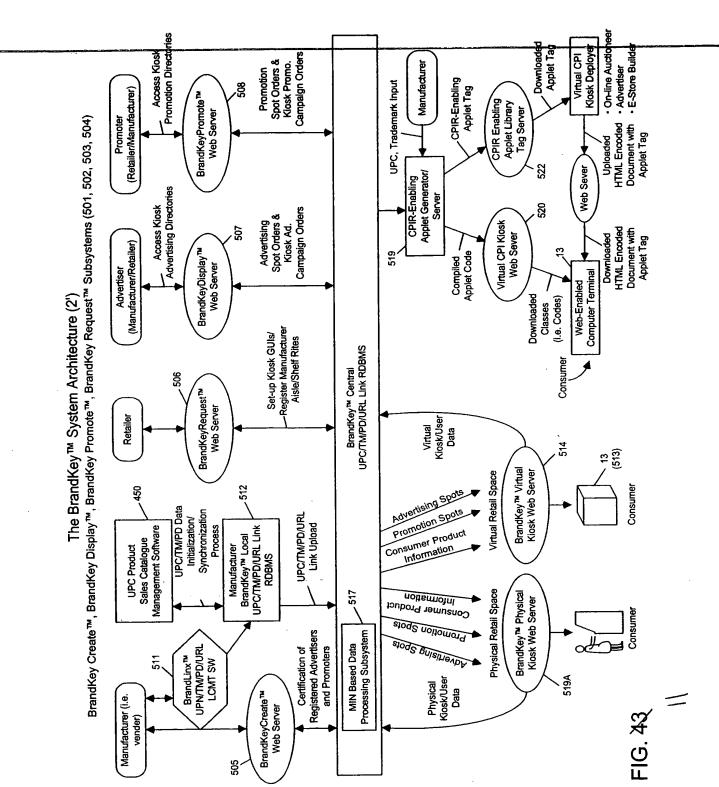
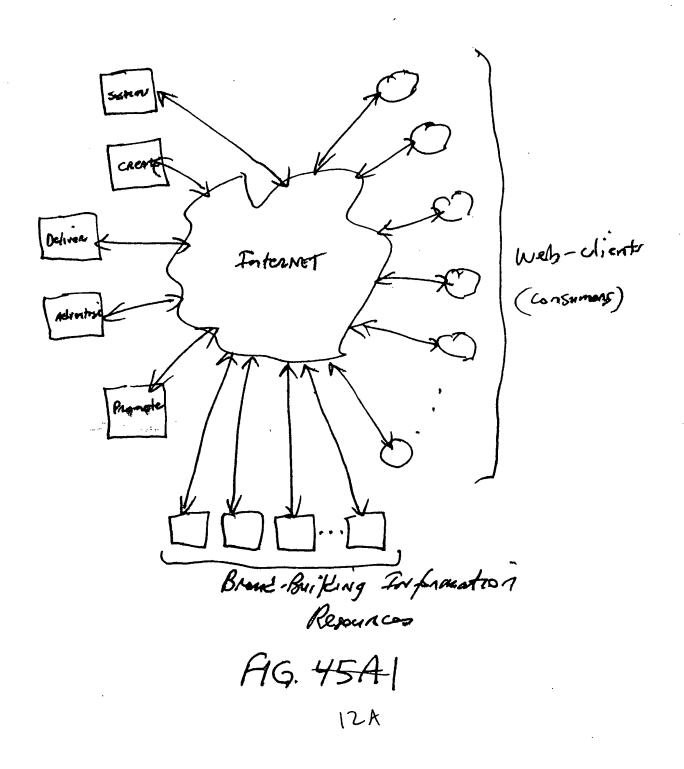
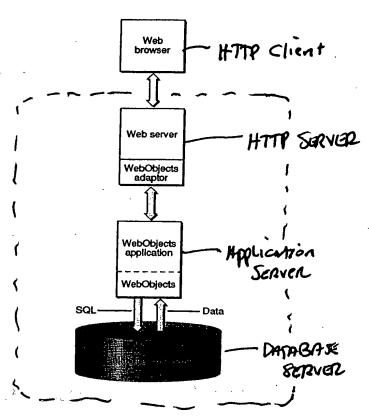


FIG. 42C 10 C





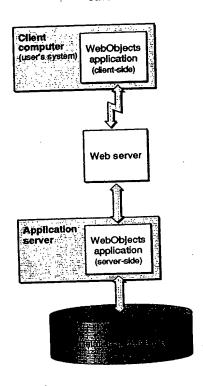
WebObjects HTML-based application communication chain



The WebObjects Architecture

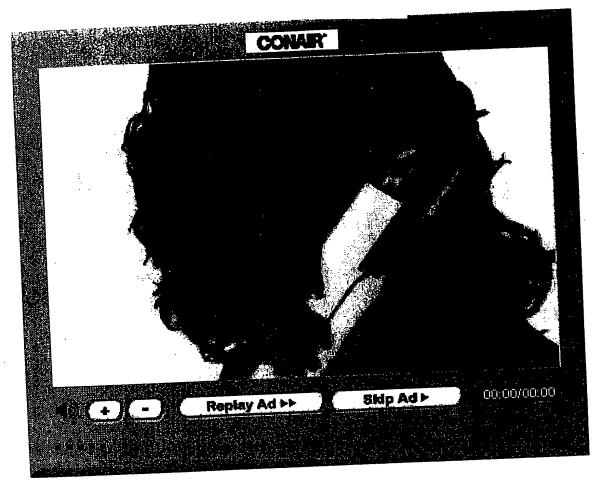
F1G. 45A1

Java Client's distributed, multitier architecture



Java Client Architecture

F1G, 45A3



F16. 50 D1 P

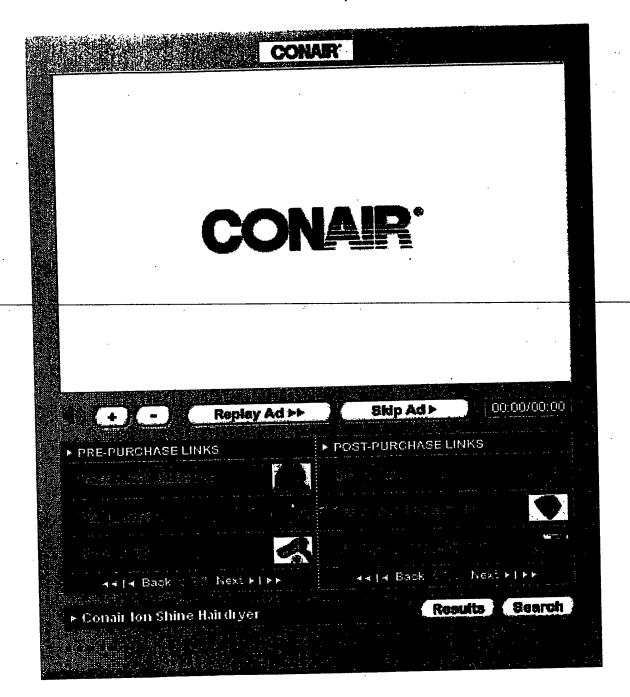
PS-VIC



FIG. 50DZ



F1G.50 D3



F1G.5004

13D



FIG. 50D5